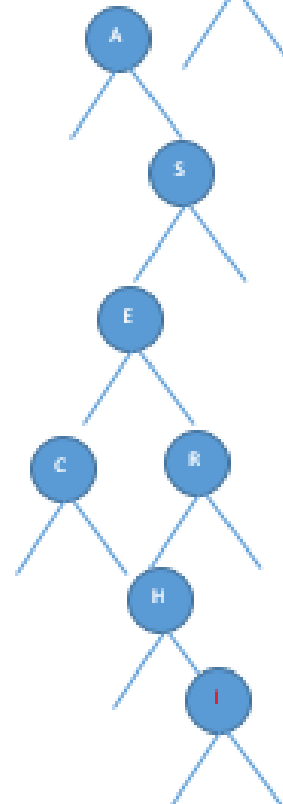
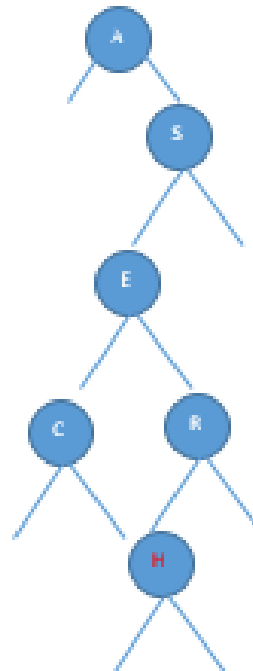
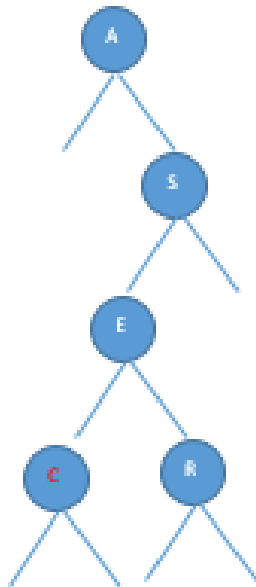
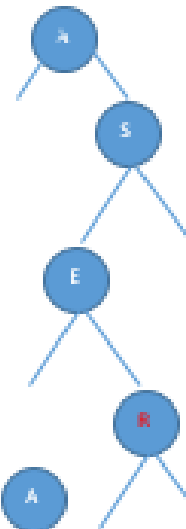
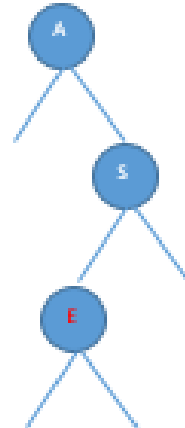
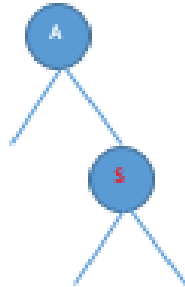
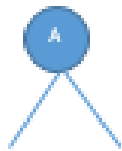


Answer Worksheet BST

1)



- 2) a) 4,2,3,5,7
b) 5,7

3)

	Search	Insertion	Deletion
Unbalanced Binary Search Tree	$O(n)$	$O(n)$	$O(n)$
Red-Black Tree	$O(\log(n))$	$O(\log(n))$	$O(\log(n))$

4)

a. True

b. False, because the 6 is not ok to the left of the 5

c. true

d. FALSE, the 6 is ok with the 2, but the 6 is not ok with the 5

5.

1) Get the Middle of the array and make it root.

2) Recursively do same for left half and right half.

a) Get the middle of left half and make it left child of the root created in step 1.

b) Get the middle of right half and make it right child of the root created in step 1.